

# PNAMP Backpack Electrofishing Method Template

## Background/Abstract:

To Users: We suggest that you use this template, to customize your backpack electrofishing method. The questions that you find below represent guidance from PNAMP and electrofishing experts for developing your method. It is not our intent to standardize any of these answers, but rather to standardize how we document an electrofishing method.

- Objective/Purpose – What is the intent of your program? (e.g., Management survey, Abundance, Detection) Why are you using electrofishing to achieve this objective?

Title/Affiliation/Program

Point of Contact – email address, phone number

## Step by Step Instructions

1. How many crew members do you use? (One should never electrofish alone.)
2. Include a description of the waveform (and alternatives, if necessary) to be used for all sampling. Description of pulsed DC must include requirements for shape (Is only square-wave permitted?), frequency (Hz) and pulse width (ms) or duty cycle (%).
3. What is your sampling procedure? Include information about the use of block nets.
4. How long (time or distance) do you electrofish for?
5. How do you determine threshold voltage for catching fish?
6. What is your procedure for holding and processing captured fish?
  - a. How are captured fish held (e.g. a bucket as the crew moves along, or collapsible mesh laundry basket)?

## Photos and Figures

## Forms

## Equipment

1. What is the make and model of your back pack unit(s)?
2. Does your unit use batteries or a generator?
3. What is the rated maximum continuous power output in average watts? (e.g. 400 W, 200 W) (Your user manual or manufacturer can provide this information)
4. What is the shape and size (diameter and thickness) of your anode?
5. What is the shape and size (diameter or length and thickness) of your cathode?
6. What is the handle length, hoop diameter and mesh size of your dip net (s)?
7. What type of conductivity meter do you use?
  - a. Do you use it to also measure water temperature? Or do you use a thermometer?
  - b. Does your meter measure specific or ambient conductivity?

8. What safety equipment do you use (other than that on the electrofishing unit)?
9. What chemicals, if any, do you use during sampling? What for?
10. What other equipment do you regularly take with you?

## Citation

Please provide information about how this method should be cited.

## Advanced

### Literature Cited

Provide a list of references that you have used to support your Method.